UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/973,624	10/09/2001	Lee J. Rosen	3047-7434	6243
70119 THOMPSON C	7590 02/27/200 COBURN LLP		EXAMINER	
	RD E. HAFERKAMP		MAI, NGOCLAN THI	
ONE U.S. BANK PLAZA SAINT LOUIS, MO 63101			ART UNIT	PAPER NUMBER
			1793	
			NOTIFICATION DATE	DELIVERY MODE
			02/27/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

IPDOCKET@THOMPSONCOBURN.COM

	Application No.	Applicant(s)
	09/973,624	ROSEN ET AL.
Office Action Summary	Examiner	Art Unit
	NGOCLAN T. MAI	1793
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	e correspondence address
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be and will apply and will expire SIX (6) MONTHS froute, cause the application to become ABANDO	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 28 This action is FINAL . 2b)☑ The 3)☐ Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matters, p	
Disposition of Claims		
4)	rawn from consideration. 18 is/are allowed.	
Application Papers		
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and a specificant may not request that any objection to the Replacement drawing sheet(s) including the correct of the specific to by the specific to the specific to by the specific to the	ccepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is contact.	See 37 CFR 1.85(a). Objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority docume 2. ☐ Certified copies of the priority docume 3. ☐ Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a limit	nts have been received. nts have been received in Applicationity documents have been received (PCT Rule 17.2(a)).	ation No ived in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:	

Application/Control Number: 09/973,624 Page 2

Art Unit: 1793

DETAILED ACTION

Status of Claims

1. Claims 2-28, 55-70, 80-97, and 102-118 are currently under examination. The previous claims 98-100 and 119 have been cancelled in amendment filed 1/28/08.

Status of previous rejections

- 2. The previous rejection to claims 98-100 and 119 is withdrawn in light of applicant's cancelling the claims.
- 3. Upon further consideration and search, the claims are rejected as follows.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the

Application/Control Number: 09/973,624 Page 3

Art Unit: 1793

reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

5. Claim 94 is rejected under 35 U.S.C. 102(e) as being anticipated by Hahn et al. (U.S. Patent No. 6,726,133).

Hahn discloses ultrafine particles of carbon having an average primary particle size of about 38 nm in aggregated and agglomerates ranging in size of about 1 micron to 10 microns. See col. 5, 11, 42-45.

6. Claim 95 is rejected under 35 U.S.C. 102(b) as being anticipated by Moss (U.S. Patent No. 4,080,431).

Moss discloses agglomerates of ultimate particles of borides, carbides and nitrides of metals of Group III-VI of the Periodic Table having submicron in size and range from about 0.01 (10 nm) to about 1.0 microns (1000 nm). Since Moss teaches powder comprising of agglomerates of primary particle whose primary particle size ranges overlap those recited by the claims; such overlapping range renders applicant's composition *prima facie* obvious despite difference in non-overlapping areas, see *In re Malagari*, 499 F.2d 1297, 1303, 182 USPQ 549, 553 (CCPA 1974). To distinguish over prior art, applicant needs to demonstrate (e.g. by comparative test data) that the more narrowly claimed ranges for the alloying constituents are somehow critical and productive of new and unexpected results.

Allowable Subject Matter

7. Claims 2-28, 55-70, 80-93, 96-97, and 102-118 allowed.

Application/Control Number: 09/973,624 Page 4

Art Unit: 1793

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to NGOCLAN T. MAI whose telephone number is (571)272-1246.

The examiner can normally be reached on 8:30-5:00 PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Roy King/

Supervisory Patent Examiner, Art Unit

1793

n.m.